



IN THE UNITED STATES AND TRADEMARK OFFICE

IN RE Application of

Josée Hamel, et al.

Serial No : 09/471,255

Filed : December 23, 1999

Title: NOVEL STREPTOCOCCUS ANTIGENS

DECLARATION OF DR. DENIS MARTIN

I, Denis Martin, declare that:

1. I am a co-inventor of the invention of the subject Patent Application No. 09/471,255, entitled "*Novel Streptococcus Antigens*."
2. I am a citizen of Canada, residing at 927 Place Séguin, Ste-Thérèse, Province of Quebec, Canada, J7e 4P5.
3. I am Director of Research, ID Biomedical Corporation of Quebec.
4. I have read the Office Action mailed June 23, 2005, in the above-referenced application and understand that claims 16, 19, 20, 25, 34, 35, and 39-50 of the present application stand rejected under 35 U.S.C. § 102(e) over US 6,582,706 ('706 patent). The priority date of the cited prior art reference is December 21, 1998. The priority date of the invention disclosed in the above-referenced application is December 23, 1998. The invention disclosed and claimed in the above-referenced application was conceived and reduced to practice prior to the Section 102(e) date of the '706 patent, *i.e.*, December 21, 1998, as evidenced by the enclosed copies of notebook pages witnessed and signed on August 17, 1998, which show that the claimed polypeptides had been isolated, and sequenced at that time. Thus, the '706 patent is not prior art to the above-referenced application.
5. I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further

that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date

Denis Martin

02 Dec 2005

A handwritten signature in black ink, appearing to read "Denis Martin", with a large, stylized loop at the end.

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3.1 de l'ORF-32c

MLL Sequence ORF+1 Spn4 #3-1 / p. 301

Project No. _____
Book No. 145

From Page No. 116

Résultats du séquençage de l'ORF+1 du clone Spn4 #3-1 / p. 301 et l'ORF+3 du clone 28-3 / p. 301

+1 de l'ORF-32c

petre

et 30
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Spn3 vs Spn3 (clonage) Formatted Alignment

Spn3 db.ASCII	CGGACGCTT TAGGTACG CAGTATT TAGCTGCTT AGCTAGTTG	1350
Spn3 (clonage)	CGGACGCTT TAGGTACG CAGTATT TAGCTGCTT AGCTAGTTG	1350
Consensus	CGGACGCTT TAGGTACG CAGTATT TAGCTGCTT AGCTAGTTG	1350
Spn3 db.ASCII	GTAGAGCAT TGACTTTTA TCAATGCTC ACTGCTTGA GCGCAGTAC	1400
Spn3 (clonage)	GTAGAGCAT TGACTTTTA TCAATGCTC ACTGCTTGA GCGCAGTAC	1400
Consensus	GTAGAGCAT TGACTTTTA TCAATGCTC ACTGCTTGA GCGCAGTAC	1400
Spn3 db.ASCII	GTCATATAT GCGGCTTGG CGAATTTCT ATCTCTTTG ATTCATCTC	1450
Spn3 (clonage)	GTCATATAT GCGGCTTGG CGAATTTCT ATCTCTTTG ATTCATCTC	1450
Consensus	GTCATATAT GCGGCTTGG CGAATTTCT ATCTCTTTG ATTCATCTC	1450
Spn3 db.ASCII	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	1500
Spn3 (clonage)	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	1500
Consensus	TCTACTTTC CAAACTCTA TTACTCTTA TTATACACA TTTCATCTT	1500
Spn3 db.ASCII	CACCTTCCA GTATATAG CACTCTGCG GAAGAGCTT TCAATGCTT	1550
Spn3 (clonage)	CACCTTCCA GTATATAG CACTCTGCG GAAGAGCTT TCAATGCTT	1550
Consensus	CACCTTCCA GTATATAG CACTCTGCG GAAGAGCTT TCAATGCTT	1550
Spn3 db.ASCII	AAAGTATTA GTGATCCAA TTGAGGACT CCAGACACA AGAAGCATC	1600
Spn3 (clonage)	AAAGTATTA GTGATCCAA TTGAGGACT CCAGACACA AGAAGCATC	1600
Consensus	AAAGTATTA GTGATCCAA TTGAGGACT CCAGACACA AGAAGCATC	1600
Spn3 db.ASCII	TGTGTACCA AGTATGAT GCGAGAGCT CAGCTGTGG TCTGACCTA	1650
Spn3 (clonage)	TGTGTACCA AGTATGAT GCGAGAGCT CAGCTGTGG TCTGACCTA	1650
Consensus	TGTGTACCA AGTATGAT GCGAGAGCT CAGCTGTGG TCTGACCTA	1650
Spn3 db.ASCII	GCGAATTTT TAAATGTA ACTATTACT GTTATTTAA ATGCTTAAT	1700
Spn3 (clonage)	GCGAATTTT TAAATGTA ACTATTACT GTTATTTAA ATGCTTAAT	1700
Consensus	GCGAATTTT TAAATGTA ACTATTACT GTTATTTAA ATGCTTAAT	1700
Spn3 db.ASCII	AAACGTTTA GAAGCTATT TAAATAGTA AAGAGGTTG AGAAAAACT	1750
Spn3 (clonage)	AAACGTTTA GAAGCTATT TAAATAGTA AAGAGGTTG AGAAAAACT	1750
Consensus	AAACGTTTA GAAGCTATT TAAATAGTA AAGAGGTTG AGAAAAACT	1750
Spn3 db.ASCII	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	1800
Spn3 (clonage)	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	1800
Consensus	TCATCATTA TTGAATGAG GATTTATGA AATTATGTA AAAATATATA	1800
Spn3 db.ASCII	GCGAGTGGT CAGCTGTTT GGTATCTCT AGCTATGTC GGTATCTCT	1850
Spn3 (clonage)	GCGAGTGGT CAGCTGTTT GGTATCTCT AGCTATGTC GGTATCTCT	1850
Consensus	GCGAGTGGT CAGCTGTTT GGTATCTCT AGCTATGTC GGTATCTCT	1850
Spn3 db.ASCII	AAACGATTT GTTCTGAGT AAATGAGA CATTATGTT GTTCTGATG	1900
Spn3 (clonage)	AAACGATTT GTTCTGAGT AAATGAGA CATTATGTT GTTCTGATG	1900
Consensus	AAACGATTT GTTCTGAGT AAATGAGA CATTATGTT GTTCTGATG	1900
Spn3 db.ASCII	TGATGCGG CCGATGAGT CAGAAAGTC AAACTTGGC ACGAGACCG	1950
Spn3 (clonage)	TGATGCGG CCGATGAGT CAGAAAGTC AAACTTGGC ACGAGACCG	1950
Consensus	TGATGCGG CCGATGAGT CAGAAAGTC AAACTTGGC ACGAGACCG	1950
Spn3 db.ASCII	GTGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2000
Spn3 (clonage)	GTGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2000
Consensus	GTGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2000
Spn3 db.ASCII	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2050
Spn3 (clonage)	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2050
Consensus	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2050
Spn3 db.ASCII	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2100
Spn3 (clonage)	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2100
Consensus	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2100
Spn3 db.ASCII	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2150
Spn3 (clonage)	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2150
Consensus	GATGAGGATG AAGAGGATG TCAATGCTC CAAATTTTA TCAATTTTA	2150
Spn3 db.ASCII	TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA	2200
Spn3 (clonage)	TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA	2200
Consensus	TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA	2200
Spn3 db.ASCII	TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA	2250
Spn3 (clonage)	TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA	2250
Consensus	TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA TCAATTTTA	2250

Spn3 vs Spn3 (clonage) Formatted Alignment

Spn3 db.ASCII	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2650
Spn3 (clonage)	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2650
Consensus	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2650
Spn3 db.ASCII	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	2700
Spn3 (clonage)	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	2700
Consensus	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	2700
Spn3 db.ASCII	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2750
Spn3 (clonage)	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2750
Consensus	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2750
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	2800
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	2800
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	2800
Spn3 db.ASCII	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2850
Spn3 (clonage)	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2850
Consensus	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2850
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	2900
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	2900
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	2900
Spn3 db.ASCII	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2950
Spn3 (clonage)	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2950
Consensus	CTATGATTA CTATGATTA CTATGATTA CTATGATTA CTATGATTA	2950
Spn3 db.ASCII	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3000
Spn3 (clonage)	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3000
Consensus	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3000
Spn3 db.ASCII	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3050
Spn3 (clonage)	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3050
Consensus	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3050
Spn3 db.ASCII	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3100
Spn3 (clonage)	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3100
Consensus	TTGCTGCTT TCAATGCTC TCAATGCTC TCAATGCTC TCAATGCTC	3100
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3150
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3150
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3150
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3200
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3200
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3200
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3250
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3250
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3250
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3300
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3300
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3300
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3350
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3350
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3350
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3400
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3400
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3400
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3450
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3450
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3450
Spn3 db.ASCII	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3500
Spn3 (clonage)	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3500
Consensus	AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT AGAGGATTT	3500

Witnessed & Understood by me,

Clement Rouse

Date

17/07/98

Invented by

Recorded by
C. Rouse

Date

13/08/98

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Résultats du séquençage de l'ORF+1 du clone SP4 #3-1 / pSL301 et l'ORF+3 du clone #25-3 / pSL301

Spn3 vs Spn3 (clonage) Formatted Alignment

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Inventor	
Record	

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Spn3 vs Spn3 (clonage) Formatted Alignment		
Spn3 db.ASCII	ATCTCAAAAT GGAATTAATG CTACGTGAGC ATTGTAGAGC CAGCAACG	4600
Spn3 (clonage)	ATCTCAAAAT GGAATTAATG CTACGTGAGC ATTGTAGAGC CAGCAACG	2764
Consensus	ATCTCAAAAT GGAATTAATG CTACGTGAGC ATTGTAGAGC CAGCAACG	2864
Spn3 db.ASCII	AAATTAAGAC AAGCATCTTC TTACGACGAC CAGCAACG-AAAACCTGTA	4610
Spn3 (clonage)	AAATTAAGAC AAGCATCTTC TTACGACGAC CAGCAACG-AAAACCTGTA	2814
Consensus	AAATTAAGAC AAGCATCTTC TTACGACGAC CAGCAACG-AAAACCTGTA	4650
Spn3 db.ASCII	AACACAGAA ACTTACGGGA TTATGATGAT TTATGATG AAGAGATAT	4700
Spn3 (clonage)	AACACAGAA ACTTACGGGA TTATGATGAT TTATGATG AAGAGATAT	2864
Consensus	AACACAGAA ACTTACGGGA TTATGATGAT TTATGATG AAGAGATAT	4700
Spn3 db.ASCII	GCGGATGAC CTAATTATG ATCCGATGAT TCCGAGATC CAGCATGAT	4750
Spn3 (clonage)	GCGGATGAC CTAATTATG ATCCGATGAT TCCGAGATC CAGCATGAT	2914
Consensus	GCGGATGAC CTAATTATG ATCCGATGAT TCCGAGATC CAGCATGAT	4750
Spn3 db.ASCII	ATCTCAAAAT GGAATTAATG GAAATTAATG CAGCTCTTTC CAGCTCTG	4800
Spn3 (clonage)	ATCTCAAAAT GGAATTAATG GAAATTAATG CAGCTCTTTC CAGCTCTG	2964
Consensus	ATCTCAAAAT GGAATTAATG GAAATTAATG CAGCTCTTTC CAGCTCTG	4800
Spn3 db.ASCII	TGATGATGAT TTATATATAT TACGATGATG TATATATAT TGAATTTAT	4900
Spn3 (clonage)	TGATGATGAT TTATATATAT TACGATGATG TATATATAT TGAATTTAT	3014
Consensus	TGATGATGAT TTATATATAT TACGATGATG TATATATAT TGAATTTAT	4950
Spn3 db.ASCII	AAATGAGAA GTGATTAATAA AAGATTTATG TGAATTTATG TGAATTTAT	4900
Spn3 (clonage)	AAATGAGAA GTGATTAATAA AAGATTTATG TGAATTTATG TGAATTTAT	3064
Consensus	AAATGAGAA GTGATTAATAA AAGATTTATG TGAATTTATG TGAATTTAT	4900
Spn3 db.ASCII	TACGATGAT AAGACCTGTA ATCAAAATG AAGTTCTTTC AAAAGTTGTA	4950
Spn3 (clonage)	TACGATGAT AAGACCTGTA ATCAAAATG AAGTTCTTTC AAAAGTTGTA	3073
Consensus	TACGATGAT AAGACCTGTA ATCAAAATG AAGTTCTTTC AAAAGTTGTA	4950
Spn3 db.ASCII	AATTAACCT TGACTTTGGG AGAATTTCAT TTATATATTA ATATATAAA	5000
Spn3 (clonage)	AATTAACCT TGACTTTGGG AGAATTTCAT TTATATATTA ATATATAAA	3073
Consensus	AATTAACCT TGACTTTGGG AGAATTTCAT TTATATATTA ATATATAAA	5000
Spn3 db.ASCII	TTTCTTGACA TACAACTTAA AAGAGGTGTC AATATTACT ACTTAAT	5048
Spn3 (clonage)	TTTCTTGACA TACAACTTAA AAGAGGTGTC AATATTACT ACTTAAT	3073
Consensus	TTTCTTGACA TACAACTTAA AAGAGGTGTC AATATTACT ACTTAAT	5048

Spn3 vs Spn3 (clonage) Formatted Alignment

Spn3 (clonage)	-----	CAVALNQHRS	QENKNNRNS	YVDSOSSON
Spn3 ORF+1	MEFSKKYIAA	GSATIVLSLS	CAVALNQHRS	QENKNNRNS
Consensus		CAVALNQHRS	QENKNNRNS	YVDSOSSON
Spn3 (clonage)	SENLTDPQVS	QKEIGIQBDI	VIKITDQGVV	TSHGHHYHY
Spn3 ORF+1	SENLTDPQVS	QKEIGIQBDI	VIKITDQGVV	TSHGHHYHY
Consensus	SENLTDPQVS	QKEIGIQBDI	VIKITDQGVV	TSHGHHYHY
Spn3 (clonage)	SEELMLKDPN	YQLKDADIVN	EVKGQYIYIK	DGKYVYVLKD
Spn3 ORF+1	SEELMLKDPN	YQLKDADIVN	EVKGQYIYIK	DGKYVYVLKD
Consensus	SEELMLKDPN	YQLKDADIVN	EVKGQYIYIK	DGKYVYVLKD
Spn3 (clonage)	DEINRQKQEH	VKNKEVNSN	VAVARSGQRY	TINDGVYVNP
Spn3 ORF+1	DEINRQKQEH	VKNKEVNSN	VAVARSGQRY	TINDGVYVNP
Consensus	DEINRQKQEH	VKNKEVNSN	VAVARSGQRY	TINDGVYVNP
Spn3 (clonage)	YIVPHGGHYH	YIPKSDLSAS	ELAAAKAHLA	GNMOPSPOLS
Spn3 ORF+1	YIVPHGGHYH	YIPKSDLSAS	ELAAAKAHLA	GNMOPSPOLS
Consensus	YIVPHGGHYH	YIPKSDLSAS	ELAAAKAHLA	GNMOPSPOLS
Spn3 (clonage)	QSVAGKSTSK	PANKSENLOS	LKLELYDSPS	ADRYSESDGL
Spn3 ORF+1	QSVAGKSTSK	PANKSENLOS	LKLELYDSPS	ADRYSESDGL
Consensus	QSVAGKSTSK	PANKSENLOS	LKLELYDSPS	ADRYSESDGL
Spn3 (clonage)	TPNGVAIPHG	DHYHFIPYSK	LSALEEKIAR	MPISTGTSST
Spn3 ORF+1	TPNGVAIPHG	DHYHFIPYSK	LSALEEKIAR	MPISTGTSST
Consensus	TPNGVAIPHG	DHYHFIPYSK	LSALEEKIAR	MPISTGTSST
Spn3 (clonage)	VSSLGSLSSN	PSSLITSKEL	SSASGDIYFN	PKDIVEETAT
Spn3 ORF+1	VSSLGSLSSN	PSSLITSKEL	SSASGDIYFN	PKDIVEETAT
Consensus	VSSLGSLSSN	PSSLITSKEL	SSASGDIYFN	PKDIVEETAT

Spn3 (clonage)	HYPKSNQIG	QPTLRPNLSL	TPSPSLPINF	QTSHEKHEED	GYGPDNRKII	430
Spn3 ORF+1	HYPKSNQIG	QPTLRPNLSL	TPSPSLPINF	QTSHEKHEED	GYGPDNRKII	440
Consensus	HYPKSNQIG	QPTLRPNLSL	TPSPSLPINF	QTSHEKHEED	GYGPDNRKII	450
Spn3 (clonage)	AEDESGFVMS	HGDHNYFFK	KDLTEBQTKA	AQKHEEVT	SHNGLDLSLS	480
Spn3 ORF+1	AEDESGFVMS	HGDHNYFFK	KDLTEBQTKA	AQKHEEVT	SHNGLDLSLS	490
Consensus	AEDESGFVMS	HGDHNYFFK	KDLTEBQTKA	AQKHEEVT	SHNGLDLSLS	500
Spn3 (clonage)	HEDDYFGNAK	EMDKLDKIE	EKLIGIMQY	GVKRESIVN	KERAKIITPH	531
Spn3 ORF+1	HEDDYFGNAK	EMDKLDKIE	EKLIGIMQY	GVKRESIVN	KERAKIITPH	541
Consensus	HEDDYFGNAK	EMDKLDKIE	EKLIGIMQY	GVKRESIVN	KERAKIITPH	551
Spn3 (clonage)	GDHSHADPID	DHKPVGIGHS	HSNYELFPE	EGWAKKENK	VYTGELTNV	581
Spn3 ORF+1	GDHSHADPID	DHKPVGIGHS	HSNYELFPE	EGWAKKENK	VYTGELTNV	591
Consensus	GDHSHADPID	DHKPVGIGHS	HSNYELFPE	EGWAKKENK	VYTGELTNV	601
Spn3 (clonage)	VNLKLNSTFN	NQNTPLTANG	KRVSSFPPPE	LEKRLGINML	VKLITPDGKV	631
Spn3 ORF+1	VNLKLNSTFN	NQNTPLTANG	KRVSSFPPPE	LEKRLGINML	VKLITPDGKV	641
Consensus	VNLKLNSTFN	NQNTPLTANG	KRVSSFPPPE	LEKRLGINML	VKLITPDGKV	651
Spn3 (clonage)	LEKSKVRGFG	EGVGNLANPE	LQDTPLPGQT	FKGTIASQST	PEVSDIQTTP	680
Spn3 ORF+1	LEKSKVRGFG	EGVGNLANPE	LQDTPLPGQT	FKGTIASQST	PEVSDIQTTP	690
Consensus	LEKSKVRGFG	EGVGNLANPE	LQDTPLPGQT	FKGTIASQST	PEVSDIQTTP	700
Spn3 (clonage)	VPTSILAKYKA	SDTITFYPPHA	GDTYLVRNQ	FAVPGTDAU	VVRVDFPHN	730
Spn3 ORF+1	VPTSILAKYKA	SDTITFYPPHA	GDTYLVRNQ	FAVPGTDAU	VVRVDFPHN	740
Consensus	VPTSILAKYKA	SDTITFYPPHA	GDTYLVRNQ	FAVPGTDAU	VVRVDFPHN	750
Spn3 (clonage)	AYLNNYKYG	EIKLPIPKLN	QOTTRIGAKN	ITPVNANAY	LNNOSTIVB	780
Spn3 ORF+1	AYLNNYKYG	EIKLPIPKLN	QOTTRIGAKN	ITPVNANAY	LNNOSTIVB	790
Consensus	AYLNNYKYG	EIKLPIPKLN	QOTTRIGAKN	ITPVNANAY	LNNOSTIVB	800
Spn3 (clonage)	VPTLEKNSG	DKPSILPQK	RKAQNSNKL	DEKVEPKTS	EXVEKELGSE	830
Spn3 ORF+1	VPTLEKNSG	DKPSILPQK	RKAQNSNKL	DEKVEPKTS	EXVEKELGSE	840
Consensus	VPTLEKNSG	DKPSILPQK	RKAQNSNKL	DEKVEPKTS	EXVEKELGSE	850

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Witnessed & Understood by me.

Clement Rious

Date _____

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Invented by

Recorded by

Date _____

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TITLE Séquence ORF 11 Sp3 # 3-1 / p52301

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(suite)

Sp3 (clonage)	TGNTSNTL EEPVTVDPVQ EKAKFASY GKLENVFN MDGTELYH	880
Sp3 ORF+1	TGNTSNTL EEPVTVDPVQ EKAKFASY GKLENVFN MDGTELYH	900
Consensus	TGNTSNTL EEPVTVDPVQ EKAKFASY GKLENVFN MDGTELYH	900
Sp3 (clonage)	SGEVTKKMA DPTGEAPQN GENKPSNGK VSTGTVENQ TENKPADSLP	930
Sp3 ORF+1	SGEVTKKMA DPTGEAPQN GENKPSNGK VSTGTVENQ TENKPADSLP	950
Consensus	SGEVTKKMA DPTGEAPQN GENKPSNGK VSTGTVENQ TENKPADSLP	950
Sp3 (clonage)	EAPNEKVPKP ENSTINGMLN PGRVGSDFH LDPALAEAPA VDPVQEKLN	980
Sp3 ORF+1	EAPNEKVPKP ENSTINGMLN PGRVGSDFH LDPALAEAPA VDPVQEKLN	1000
Consensus	EAPNEKVPKP ENSTINGMLN PGRVGSDFH LDPALAEAPA VDPVQEKLN	1000
Sp3 (clonage)	FTASYGLGLD SVIPNDGTL ELRLPSGEVI KKLSDFLA	1019
Sp3 ORF+1	FTASYGLGLD SVIPNDGTL ELRLPSGEVI KKLSDFLA	1039
Consensus	FTASYGLGLD SVIPNDGTL ELRLPSGEVI KKLSDFLA	1039

Séquence en acide nucléique : 2 changements de bases

position 873 C → T
 position 2293 T → C

Séquence en acide aminés : 1 changement d'acide aminé

position 765 F → L
 Phe → Leu

Phe : acide aminé hydrophobe
 Leu : acide aminé hydrophobe

* Changement d'acide aminé causé par la mutation de la base en position 2293 (T → C)

Codon : $\text{Phe} \rightarrow \text{Leu}$ } mutation position 2293 (acide nucléique)

Codon : $\text{GAC} \rightarrow \text{GAT}$ } mutation position 873 (acide nucléique)
 Asp Asp

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Witnessed & Understood by me,

Date

Invented by

Date

Clément Rioux

17 AOUT 98

Recorded by

Yvabelle Pireau

13/02/98

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